

DERWENT ABSTRACT FOR: **JP 04-279697** (Asahi), published 5 Oct 1992:

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 ACCESSION NUMBER: 1992-378284 [46] WPINDEX  
 DOC. NO. NON-CPI: N1992-288387  
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 TITLE Resin sliding part material, having high weld strength and resistance to friction and wear - comprises continuous polyphenylene ether phase contg. dispersed polycylolefin with aggregated vinyl aromatic conjugated diene copolymer.  
 DERWENT CLASS: A18 A25 A38 Q62 Q64  
 PATENT ASSIGNEE(S): (ASAH) ASAH CHEM IND CO LTD  
 COUNTRY COUNT: 1  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
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JP 2982878	B2	19991129	(200002)	8	

APPLICATION DETAILS:

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The material consists of (A) a continuous phase of a polyphenylene ether(s) and (B) a dispersoid phase consisting of (1) a dispersed polycylolefin(s) of a minor axis of practically up to 0.5 micron on which one or more of vinyl aromatic-conjugated diene copolymers and their hydrogenated prods. are aggregated and (2) one or more of the copolymers of a minor axis of practically up to 0.3 micron dispersed in simple form.

USE/ADVANTAGE - Owing to the finely dispersed structure contg. the polycylolefin(s) and compatibiliser(s), the material has reduced layer peelability, high weld strength and good sliding characteristics, esp. high resistance to friction and wear.

In an example, polyphenylene ethers include poly(2,6-dimethyl-1,4-phenylene ether), poly(2-methyl-6-ethyl-1,4-phenylene ether) and poly(2,6-dichloro-1,4-phenylene ether). Polyphenylene ether copolymers are also available, including poly(2,6-dimethyl-1,4-phenylene ether)-2,6-dimethylphenol-2,3,6-trimethylphenol copolymer. The vinyl aromatic cpd. for the compatibiliser is pref. one or a mixt. of styrene, alpha-methylstyrene, vinyl toluene, p-tert.-butyl styrene and/or diphenyl ethylene.

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